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L3: Entry 6 of 7 File: USPT

DOCUMENT-IDENTIFIER: US 6362341 B1
TITLE: Benzyl compounds which inhibit leukocyte adhesion mediated by VLA-4

Detailed Description Text (34):
In addition, certain of the compounds of this invention inhibit, in vivo, adhesion of leukocytes to endothelial cells mediated by VLA-4 and, accordingly, can be used in the treatment of diseases mediated by VLA-4. Such diseases include inflammatory diseases in mammalian patients such as asthma, Alzheimer's disease, atherosclerosis, AIDS dementia, diabetes (including acute juvenile onset diabetes), inflammatory bowel disease (including ulcerative colitis and Crohn's disease), multiple sclerosis, rheumatoid arthritis, tissue transplantation, tumor metastasis, meningitis, encephalitis, stroke, and other cerebral traumas, nephritis, retinitis, atopic dermatitis, psoriasis, myocardial ischemia and acute leukocyte-mediated lung injury such as that which occurs in adult respiratory distress syndrome.

Detailed Description Text (44):
The pharmaceutical compositions of the present invention can be used to block or inhibit cellular adhesion associated with a number of diseases and disorders. For instance, a number of inflammatory disorders are associated with integrins or leukocytes. Treatable disorders include, e.g., transplantation rejection (e.g., allograft rejection), Alzheimer's disease, atherosclerosis, AIDS dementia, diabetes (including acute juvenile onset diabetes), retinitis, cancer metastases, rheumatoid arthritis, acute leukocyte-mediated lung injury (e.g., adult respiratory distress syndrome), asthma, nephritis, and acute and chronic inflammation, including atopic dermatitis, psoriasis, myocardial ischemia, and inflammatory bowel disease (including Crohn's disease and ulcerative colitis). In preferred embodiments, the pharmaceutical compositions are used to treat inflammatory brain disorders, such as multiple sclerosis (MS), viral meningitis and encephalitis.

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L8: Entry 44 of 54 File: USPT

DOCUMENT-IDENTIFIER: US 6190887 B1
TITLE: Expression of an exogenous gene in a mammalian cell by use of a non-mammalian DNA virus having an altered coat protein

Brief Summary Text (18):
In a preferred embodiment, the altered coat protein is produced as a fusion (i.e., chimeric) protein. A particularly useful fusion protein includes (i) a transmembrane polypeptide (e.g., antibodies such as IgM, IgG, and single chain antibodies) fused to (ii) a polypeptide that binds to a mammalian cell (e.g., VCAM, NCAM, integrins, and selectins) or to a growth factor. Included among the suitable transmembrane polypeptides are various coat proteins that naturally exist on the surface of a non-mammalian or mammalian virus particle (e.g., baculovirus gp64, influenza hemagglutinin protein, and Vesicular stomatitis virus glycoprotein G). All or a portion of the transmembrane polypeptide can be used, provided that the polypeptide spans the membrane of the virus particle, such that the polypeptide is anchored in the membrane. Non-viral transmembrane polypeptides also can be used. For example, a membrane-bound receptor can be fused to a polypeptide that binds a mammalian cell and used as the altered coat protein. Preferably, the fusion protein includes a viral coat protein (e.g., gp64) and a targeting molecule (e.g., VSV-G). Fusion polypeptides that include all or a cell-binding portion of a cell adhesion molecule also are included within the invention (e.g, a gp64-VCAM fusion protein).

Brief Summary Paragraph Table (3):
TABLE 2 EXAMPLES OF SUITABLE ALTERED COAT PROTEINS Viral Coat Protein Reference Vesicular Stomatitis Virus glycoprotein G GenBank Accession # M21416.sup.a Herpes Simplex Virus 1 (KOS) GenBank glycoprotein B Accession # K01760 Human Immunodeficiency Virus type 1 GenBank gp120 Accession # U47783 Influenza A Virus hemagglutinin GenBank Accession # M38242 Human Respiratory Syncytial Virus GenBank membrane glycoprotein Accession # M86651 Human Respiratory Syncytial Virus fusion GenBank protein Accession # D00334 Tick-Borne Encephalitis Virus GenBank glycoprotein E Accession # S72426 Pseudorabies Virus glycoprotein gH GenBank Accession # M61196 Rabies Virus G5803FX glycoprotein GenBank Accession # U11753 Human Rhinovirus 1B viral coat proteins GenBank VP1, VP2, and VP3 Accession # D00239 Semliki Forest Virus coat proteins E1, E2, GenBank and E3 Accession # Z48163 Human immunodeficiency Virus-1 Mebatsion et al., 1996, PNAS envelope spike protein 93:11366-1370 Herpes Simplex Virus-1 Entry Mediator Montgomery et al., 1996, Cell 87:427-436 Pseudorabies Virus Glycoprotein gE Enquist et al., 1994, J. Virol. 68:5275-5279 Herpes Simplex Virus Glycoprotein gB Norais et al., 1996, J. Virol. 70:7379-7387 Bovine Syncytial Virus Envelope Protein Renshaw et al., 1991, Gene 105:179-184 Human Foamy Virus (HFV) GenBank Accession # Y07725 Rabies Virus glycoprotein G Gaudin et al., 1996, J. Virol. 70:7371-7378 .sup.a The GenBank accession numbers refer to nucleic acid sequences encoding the viral coat proteins.

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L11	L9 and (encephalitis)	0	L11
L10	L9 and (alpha4 or 'vla-4')	0	L10
L9	rubin-steven$	52	L9
L8	L6 and (adhesion or adhesive) and ('alpha4' or 'vla-4' or vcam$)	54	L8
L7	L6 and (adhesion or adhesive)	219	L7
L6	(herpes or arbovirus) same (encephalitis)	1152	L6
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L5	(alpha4 or 'vla-4')and (viral or virus or herpes or arbovirus) same (encephalitis)	5	L5
L4	L1 and (viral or virus or herpes or arbovirus) same (encephalitis)	0	L4
DB=USPT,PGPB; PLUR=YES; OP=ADJ			
L3	L1 and (viral or virus or herpes or arbovirus) same (encephalitis)	7	L3
L2	L1 same (viral or virus or herpes or arbovirus)	0	L2
L1	('vla-4' or alpha4) same (encephalitis)	20	L1

END OF SEARCH HISTORY